Nutrient recycling in Finland
State of play

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Finnish model for nutrient recycling

- Programme of the Finnish Government 2011: Finland turned into a model country in nutrient recycling
- A roadmap of necessary measures prepared by a working group with representatives of the Ministry of Agriculture and Forestry and Ministry of the Environment
  - more efficient nutrient recycling in Finland
  - specific measures to improve the state of the Archipelago Sea

- The working group gave more than 80 proposals for measures concerning:
  - more sparing and efficient use of nutrients
  - minimising the amount of biowaste and the nutrients cycled in these
  - efficient and safe recycling of nutrients
  - recovery of nutrients from waters for re-utilization

Finnish model for nutrient recycling

- Realised and planned action in programme implementation:
  - promotion programme on nutrient recycling (Ministry of the Environment; several millions of euros in 2012-2013)
  - environmental support and the envisaged agri-environment-climate payment
  - investment aids for equipment for treating animal manure
  - comprehensive manual on the use of sewage sludge
  - removal of low-value fish from sea

Rural development programme
Agri-environment-climate payment

Numerous conditions and great expectations:

- Framework conditions and priorities in the Regulation of the Parliament and Council on support for rural development
- Objectives laid down in the Government Programme
- Government resolutions (the Baltic Sea, in particular)
- National implementation of directives

Examples:

- Reducing harm from agriculture to surface waters and groundwater
  - National Implementation of Water Framework Directive (water management plans)
- Preservation and management of biodiversity in farming environments
  - National implementation of the Biodiversity Strategy (action programme)
  - Strategy on Invasive Alien Species, Strategy on Genetic Resources
- Mitigating climate impacts of agriculture and adaptation
  - Climate objectives of agriculture and objectives for ammonia emissions

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More efficient environmental impact

- Greening of the CAP = higher baseline
- Parcel-specific measures in agri-environment-climate payment
  - payment to the area in which the measure implemented
  - in alternative higher compensation for more efficient measures
- Nutrient balance calculation
- Facilitating the undertaking of the measure

  Advice as a means for allocation and higher efficiency
  - possibility to adjust the commitment
  - utilisation of datase

Environmental investments and other measures in support of the payment

Organic production

- Separate commitment for organic production, may be linked to environmental commitment
- Farming method which is based on recycling principle
- Current level 9 % of arable land
- Objective is to reach 20 % of arable land by 2020

Reduction fisheries in coastal waters; innovative nutrient recycling

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Reduction fisheries, removing nutrients from coastal waters

- **The coastal waters in southern Finland are eutrophicated. This has lead to a massive increase of bream and roach.**
- **By increasing fishing of bream and roach one contributes to the removal of nutrients from the coastal waters.**
- **In Finland reduction fisheries contributed in 2012 to a catch of 1 000 tons of bream/roach which equals a removal of 8 tons of phosphorous. This 8 tons of phosphorous stands for 5 % of the load that enters the sea after the treatment of urban waste waters.**
- **The modell could be developed to a zero nutrient load situation through the cooperation of municipalities, fishermen and farmers.**

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Bilder: Klaus Berglund

New products of bream!

Picture: Mika Remes

EU Strategy for the Baltic sea region; priority Area AGRI -

- Nutrient recycling is very important for the state of the Baltic Sea and it is also on the agenda of the Finnish Government.
- We encourage concrete actions that aim at reducing of the nutrient load into the Baltic Sea and improve recycling of nutrients.
- E.g. the current flagship projects "Baltic MANURE", "Phosphorus recycling" and "Eradicating discards" contribute to the reduction of the nutrient load.